

# Paper (Except Newsprint) Mills: 2002

Issued January 2005

EC02-311-322121 (RV)

## 2002 Economic Census

*Manufacturing*

Industry Series



# USCENSUSBUREAU

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



## CONTENTS

Introduction to the Economic Census .....	v
Manufacturing .....	ix

### Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002 .....	2
3. Detailed Statistics by Industry: 2002 .....	3
4. Industry Statistics by Employment Size: 2002.....	6
5. Industry Statistics by Primary Product Class Specialization: 2002 .....	7
6a. Products Statistics: 2002 and 1997 .....	8
6b. Product Class Shipments for Selected States: 2002 and 1997 .	12
7. Materials Consumed by Kind: 2002 and 1997.....	13

### Appendixes

A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Methodology .....	C-1
D. Geographic Notes .....	--
E. Metropolitan and Micropolitan Statistical Areas .....	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997 .....	F-1

-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
322121, Paper (except newsprint) mills . . . . 2002..	193	307	96 522	5 313 691	76 047	159 908	3 955 193	24 437 436	18 239 410	42 501 737	2 676 825
2001..	N	N	104 964	5 586 938	83 154	173 453	4 171 388	22 676 592	20 003 845	42 602 115	2 672 982
2000..	N	N	110 708	5 738 720	87 640	184 739	4 255 710	24 777 987	21 420 481	46 119 069	2 883 053
1999..	N	N	117 721	6 062 652	92 819	199 148	4 526 150	23 400 146	21 231 531	44 728 354	2 745 654
1998..	N	N	121 298	5 973 936	95 227	203 926	4 374 292	21 859 582	20 609 399	42 254 842	3 357 152
1997..	121	267	125 935	6 197 015	98 577	214 510	4 483 213	22 128 898	20 914 676	42 966 163	3 404 261

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
322121, Paper (except newsprint) mills												
United States .....	—	307	252	96 522	5 313 691	76 047	159 908	3 955 193	24 437 436	18 239 410	42 501 737	<sup>2</sup> 676 825
Connecticut .....	—	6	4	1 456	84 498	1 073	2 193	58 652	404 697	386 126	786 075	<sup>3</sup> 1 035
Florida .....	—	9	3	2 351	130 461	1 865	3 909	97 229	516 234	400 675	899 504	<sup>3</sup> 7 468
Illinois .....	—	8	6	676	39 981	503	1 083	28 619	116 704	125 906	244 577	<sup>5</sup> 0 143
Louisiana .....	—	6	6	2 981	164 209	2 366	5 120	120 218	662 092	577 082	1 242 953	249 552
Massachusetts .....	—	20	19	2 852	132 934	1 887	4 097	77 920	361 421	363 910	720 331	<sup>2</sup> 4 533
New Jersey .....	1	6	6	1 940	109 846	1 589	3 597	85 647	293 316	405 110	699 159	<sup>1</sup> 9 000
New York .....	2	33	27	4 784	238 501	3 538	7 352	159 592	865 138	794 317	1 635 712	<sup>6</sup> 1 314
Pennsylvania .....	—	17	14	6 542	375 222	5 055	10 601	280 381	2 400 715	1 314 561	3 776 865	<sup>1</sup> 41 739
South Carolina .....	—	5	5	4 097	259 935	3 110	6 352	186 124	1 324 342	996 232	2 320 846	94 817
Vermont .....	4	4	4	785	36 840	619	1 302	25 579	98 627	62 411	160 980	<sup>5</sup> 0 71
Washington .....	—	10	8	3 699	216 973	3 017	6 117	173 683	783 229	874 000	1 658 016	<sup>1</sup> 26 543
Wisconsin .....	—	36	35	17 907	923 501	14 647	29 670	717 343	4 386 295	3 042 033	7 342 749	270 576

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>322121, Paper (except newsprint) mills</b>	
Companies <sup>1</sup> .....	193
All establishments <sup>2</sup> .....	307
Establishments with 1 to 19 employees .....	55
Establishments with 20 to 99 employees .....	78
Establishments with 100 employees or more .....	174
All employees <sup>3</sup> .....	96 522
Total compensation .....	7 038 357
Annual payroll .....	5 313 691
Total fringe benefits .....	1 724 666
Production workers, average for year .....	76 047
Production workers on March 12 .....	76 618
Production workers on May 12 .....	76 168
Production workers on August 12 .....	76 021
Production workers on November 12 .....	75 310
Production worker hours .....	159 908
Production worker wages .....	3 955 193
Total cost of materials .....	18 239 410
Materials, parts, containers, packaging, etc., used .....	15 138 445
Resales .....	241 574
Purchased fuels .....	1 492 526
Purchased electricity .....	1 021 131
Contract work .....	345 734
Quantity of electricity purchased for heat and power .....	25 064 796
Quantity of electricity generated less sold for heat and power .....	15 672 465
Total value of shipments .....	42 501 737
Primary products value of shipments .....	39 859 197
Secondary products value of shipments .....	2 287 408
Total miscellaneous receipts .....	355 132
Value of resales .....	252 112
Contract receipts .....	D
Other miscellaneous receipts .....	D
Primary products specialization ratio .....	95
Value of primary products shipments made in all industries .....	41 245 143
Value of primary products shipments made in this industry .....	39 859 197
Value of primary products shipments made in other industries .....	1 385 946
Coverage ratio .....	97
Value added .....	24 437 436
Total inventories, beginning of year .....	3 838 876
Finished goods inventories .....	1 943 462
Work-in-process inventories .....	368 472
Materials and supplies inventories .....	1 526 976
Total inventories, end of year .....	4 343 363
Finished goods inventories .....	2 084 666
Work-in-process inventories .....	402 377
Materials and supplies inventories .....	1 856 354
Gross value of depreciable assets (acquisition costs) at beginning of year .....	'53 517 561
Total capital expenditures (new and used) .....	'2 676 825
Buildings and other structures (new and used) .....	'386 001
Machinery and equipment (new and used) .....	'2 290 824
Automobiles, trucks, etc., for highway use .....	'7 711
Computers and peripheral data processing equipment .....	'79 470
All other expenditures for machinery and equipment .....	'2 203 643
Total retirements .....	'1 448 140
Gross value of depreciable assets at end of year .....	'54 746 246
Depreciation charges during year .....	'2 756 117
Total rental payments .....	196 970
Buildings and other structures .....	76 064
Machinery and equipment .....	120 906
Total other expenses <sup>4</sup> .....	3 187 312
Response coverage ratio <sup>5</sup> .....	91
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	721 638
Communications services <sup>4</sup> .....	35 694
Legal services <sup>4</sup> .....	13 264
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	4 233
Advertising and promotional services <sup>4</sup> .....	164 378
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	36 700
Refuse removal (including hazardous waste) services <sup>4</sup> .....	131 538
Management consulting and administrative services <sup>4</sup> .....	104 776
Taxes and license fees <sup>4</sup> .....	228 917
All other expenses <sup>4</sup> .....	1 746 175

See footnotes at end of table.

**Table 3. Detailed Statistics by Industry: 2002—Con.**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>3221211, Paper (except newsprint) mills - integrated producer</b>	
Companies <sup>1</sup> .....	number.. 34
All establishments <sup>2</sup> .....	number.. 75
Establishments with 1 to 19 employees .....	number.. —
Establishments with 20 to 99 employees .....	number.. 3
Establishments with 100 employees or more .....	number.. 72
All employees <sup>3</sup> .....	number.. 55 557
Total compensation .....	\$1,000.. 4 198 114
Annual payroll .....	\$1,000.. 3 168 962
Total fringe benefits .....	\$1,000.. 1 029 152
Production workers, average for year .....	number.. 43 860
Production workers on March 12 .....	number.. 44 127
Production workers on May 12 .....	number.. 44 005
Production workers on August 12 .....	number.. 43 693
Production workers on November 12 .....	number.. 43 594
Production worker hours .....	1,000.. 93 181
Production worker wages .....	\$1,000.. 2 371 889
Total cost of materials .....	\$1,000.. 10 490 314
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 8 534 040
Resales .....	\$1,000.. 68 698
Purchased fuels .....	\$1,000.. 1 026 072
Purchased electricity .....	\$1,000.. 629 316
Contract work .....	\$1,000.. 232 188
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 16 256 167
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 11 938 941
Total value of shipments .....	\$1,000.. 25 107 599
Primary products value of shipments .....	\$1,000.. X
Secondary products value of shipments .....	\$1,000.. X
Total miscellaneous receipts .....	\$1,000.. X
Value of resales .....	\$1,000.. X
Contract receipts .....	\$1,000.. D
Other miscellaneous receipts .....	\$1,000.. X
Primary products specialization ratio .....	percent.. X
Value of primary products shipments made in all industries .....	\$1,000.. X
Value of primary products shipments made in this industry .....	\$1,000.. X
Value of primary products shipments made in other industries .....	\$1,000.. X
Coverage ratio .....	percent.. X
Value added .....	\$1,000.. 14 781 489
Total inventories, beginning of year .....	\$1,000.. 2 187 927
Finished goods inventories .....	\$1,000.. 1 058 439
Work-in-process inventories .....	\$1,000.. 166 498
Materials and supplies inventories .....	\$1,000.. 962 990
Total inventories, end of year .....	\$1,000.. 2 582 330
Finished goods inventories .....	\$1,000.. 1 193 604
Work-in-process inventories .....	\$1,000.. 195 537
Materials and supplies inventories .....	\$1,000.. 1 193 189
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. X
Total capital expenditures (new and used) .....	\$1,000.. X
Buildings and other structures (new and used) .....	\$1,000.. X
Machinery and equipment (new and used) .....	\$1,000.. X
Automobiles, trucks, etc., for highway use .....	\$1,000.. X
Computers and peripheral data processing equipment .....	\$1,000.. X
All other expenditures for machinery and equipment .....	\$1,000.. X
Total retirements .....	\$1,000.. X
Gross value of depreciable assets at end of year .....	\$1,000.. X
Depreciation charges during year .....	\$1,000.. X
Total rental payments .....	\$1,000.. X
Buildings and other structures .....	\$1,000.. X
Machinery and equipment .....	\$1,000.. X
Total other expenses <sup>4</sup> .....	\$1,000.. X
Response coverage ratio <sup>5</sup> .....	percent.. X
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. X
Communications services <sup>4</sup> .....	\$1,000.. X
Legal services <sup>4</sup> .....	\$1,000.. X
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. X
Advertising and promotional services <sup>4</sup> .....	\$1,000.. X
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. X
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. X
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. X
Taxes and license fees <sup>4</sup> .....	\$1,000.. X
All other expenses <sup>4</sup> .....	\$1,000.. X

See footnotes at end of table.

**Table 3. Detailed Statistics by Industry: 2002—Con.**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>3221212, Paper (except newsprint) mills - nonintegrated producer</b>	
Companies <sup>1</sup> .....	number.. 159
All establishments <sup>2</sup> .....	number.. 232
Establishments with 1 to 19 employees .....	number.. 55
Establishments with 20 to 99 employees .....	number.. 75
Establishments with 100 employees or more .....	number.. 102
All employees <sup>3</sup> .....	number.. 40 965
Total compensation .....	\$1,000.. 2 840 243
Annual payroll .....	\$1,000.. 2 144 729
Total fringe benefits .....	\$1,000.. 695 514
Production workers, average for year .....	number.. 32 187
Production workers on March 12 .....	number.. 32 491
Production workers on May 12 .....	number.. 32 163
Production workers on August 12 .....	number.. 32 328
Production workers on November 12 .....	number.. 31 716
Production worker hours .....	\$1,000.. 66 727
Production worker wages .....	\$1,000.. 1 583 304
Total cost of materials .....	\$1,000.. 7 749 096
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 6 604 405
Resales .....	\$1,000.. 172 876
Purchased fuels .....	\$1,000.. 466 454
Purchased electricity .....	\$1,000.. 391 815
Contract work .....	\$1,000.. 113 546
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 8 808 629
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 3 733 524
Total value of shipments .....	\$1,000.. 17 394 138
Primary products value of shipments .....	\$1,000.. X
Secondary products value of shipments .....	\$1,000.. X
Total miscellaneous receipts .....	\$1,000.. X
Value of resales .....	\$1,000.. X
Contract receipts .....	\$1,000.. X
Other miscellaneous receipts .....	\$1,000.. X
Primary products specialization ratio .....	percent.. X
Value of primary products shipments made in all industries .....	\$1,000.. X
Value of primary products shipments made in this industry .....	\$1,000.. X
Value of primary products shipments made in other industries .....	\$1,000.. X
Coverage ratio .....	percent.. X
Value added .....	\$1,000.. 9 655 947
Total inventories, beginning of year .....	\$1,000.. 1 650 949
Finished goods inventories .....	\$1,000.. 885 023
Work-in-process inventories .....	\$1,000.. 201 974
Materials and supplies inventories .....	\$1,000.. 563 986
Total inventories, end of year .....	\$1,000.. 1 761 033
Finished goods inventories .....	\$1,000.. 891 062
Work-in-process inventories .....	\$1,000.. 206 840
Materials and supplies inventories .....	\$1,000.. 663 165
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. X
Total capital expenditures (new and used) .....	\$1,000.. X
Buildings and other structures (new and used) .....	\$1,000.. X
Machinery and equipment (new and used) .....	\$1,000.. X
Automobiles, trucks, etc., for highway use .....	\$1,000.. X
Computers and peripheral data processing equipment .....	\$1,000.. X
All other expenditures for machinery and equipment .....	\$1,000.. X
Total retirements .....	\$1,000.. X
Gross value of depreciable assets at end of year .....	\$1,000.. X
Depreciation charges during year .....	\$1,000.. X
Total rental payments .....	\$1,000.. X
Buildings and other structures .....	\$1,000.. X
Machinery and equipment .....	\$1,000.. X
Total other expenses <sup>4</sup> .....	\$1,000.. X
Response coverage ratio <sup>5</sup> .....	percent.. X
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. X
Communications services <sup>4</sup> .....	\$1,000.. X
Legal services <sup>4</sup> .....	\$1,000.. X
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. X
Advertising and promotional services <sup>4</sup> .....	\$1,000.. X
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. X
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. X
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. X
Taxes and license fees <sup>4</sup> .....	\$1,000.. X
All other expenses <sup>4</sup> .....	\$1,000.. X

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
322121, Paper (except newsprint) mills											
All establishments .....	—	307	96 522	5 313 691	76 047	159 908	3 955 193	24 437 436	18 239 410	42 501 737	'2 676 825
Establishments with—											
1 to 4 employees .....	7	24	59	2 667	40	82	1 375	7 399	7 175	14 605	'1 596
5 to 9 employees .....	4	16	116	5 639	92	182	4 140	4 062	16 937	34 998	'968
10 to 19 employees .....	2	15	213	9 115	148	291	5 551	24 891	16 998	40 886	'1 022
20 to 49 employees .....	2	33	1 088	48 365	862	1 646	32 327	133 836	165 178	301 694	'8 548
50 to 99 employees .....	2	45	3 346	152 480	2 519	5 205	103 491	396 028	521 562	919 664	'38 317
100 to 249 employees .....	1	61	10 018	504 813	7 393	16 024	345 812	2 047 919	1 816 202	3 924 073	'151 486
250 to 499 employees .....	1	46	16 622	860 388	13 066	27 918	629 317	3 716 337	3 295 437	6 965 306	'835 071
500 to 999 employees .....	—	38	26 825	1 536 563	20 861	43 972	1 137 509	6 730 960	5 744 730	12 415 727	'579 749
1,000 to 2,499 employees .....	—	27	k	D	D	D	D	D	D	D	D
2,500 employees or more .....	—	2	i	D	D	D	D	D	D	D	D
Administrative records <sup>4</sup> .....	—	—	—	—	—	—	—	—	—	—	—

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
322121	Paper (except newsprint) mills .....	307	96 522	5 313 691	76 047	159 908	3 955 193	24 437 436	18 239 410	42 501 737	'2 676 825
3221211	Clay-coated printing and converting paper .....	34	21 282	1 259 620	16 471	34 664	931 771	4 189 422	4 402 695	8 603 332	'769 857
3221213	Uncoated freesheet paper (containing not more than 10 percent mechanical fiber) .....	70	31 439	1 759 504	24 317	52 048	1 274 923	6 819 424	5 699 571	12 409 066	'921 038
3221215	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus .....	1	b	D	D	D	D	D	D	D	D
3221217	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) and thin paper .....	11	2 506	121 336	1 717	3 765	76 333	310 264	270 844	579 620	'18 102
3221219	Unbleached kraft (not less than 80 percent) packaging and industrial converting paper .....	15	1 479	71 165	1 058	2 321	48 399	226 217	249 106	475 527	'13 917
322121A	Packaging and industrial converting paper, except unbleached kraft ....	14	1 351	66 814	1 043	2 292	47 005	167 071	225 059	392 548	'9 949
322121C	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc. ....	41	7 202	372 650	5 187	10 810	241 267	1 049 570	1 081 472	2 115 263	'90 764
322121E	Construction paper .....	8	552	26 824	436	927	18 013	63 532	85 986	149 107	'12 549
322121G	Tissue paper and other machine-creped paper .....	31	4 861	239 219	3 787	7 855	174 817	991 312	905 396	1 883 124	'81 615
322121K	Disposable diapers and similar disposable products, made in paper mills .....	6	h	D	D	D	D	D	D	D	D
322121N	Sanitary tissue paper products, made in paper mills .....	31	21 678	1 190 420	18 566	37 756	975 698	8 771 481	4 360 836	13 088 916	'558 607

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
322121	Paper (except newsprint) mills .....	2002.. N 1997.. N	X X	X X	41 245 143 39 984 666
3221211	Clay-coated printing and converting paper .....	2002.. N 1997.. N	X X	X X	7 693 273 8 452 880
32212111	Clay-coated groundwood printing and converting paper (containing more than 10 percent mechanical fiber), including prime-coated body stock .....	2002.. N 1997.. N	X X	X X	3 462 765 3 706 540
322121111	Clay-coated groundwood printing and converting paper (containing more than 10 percent mechanical fiber), including prime-coated body stock .....	1,000 s tons.. 2002.. 13 1997.. 12	X X	P5 163.4 4 818.5	3 462 765 3 706 540
32212112	Clay-coated freesheet printing and converting paper (containing not more than 10 percent mechanical fiber), including prime-coated body stock .....	2002.. N 1997.. N	X X	X X	4 230 508 4 746 340
3221211221	Clay-coated freesheet printing and converting paper, coated one side (containing not more than 10 percent mechanical fiber), including prime-coated body stock .....	1,000 s tons.. 2002.. 12 1997.. 16	X X	9804.2 983.1	810 723 955 531
3221211231	Clay-coated freesheet printing and converting paper, coated two sides (containing not more than 10 percent mechanical fiber), including prime-coated body stock .....	1,000 s tons.. 2002.. 15 1997.. 16	X X	P3 917.0 4 007.3	3 419 785 3 790 809
3221211Y	Clay-coated printing and converting paper, nsk .....	2002.. N 1997.. N	X X	X X	— —
3221211YVV	Clay-coated printing and converting paper, nsk .....	2002.. N 1997.. N	X X	X X	— —
3221213	Uncoated freesheet paper (containing not more than 10 percent mechanical fiber) .....	2002.. N 1997.. N	X X	X X	10 564 938 11 633 314
32212131	Bond and writing paper, and form bond in rolls, uncoated freesheet .....	2002.. N 1997.. N	X X	X X	2 924 380 3 472 714
322121311	Bond and writing paper, including protective check, uncoated freesheet .....	1,000 s tons.. 2002.. 18 1997.. 18	X X	2 723.3 3 050.4	2 160 125 2 287 119
3221213115	Form bond paper in rolls, uncoated freesheet .....	1,000 s tons.. 2002.. 10 1997.. 15	X X	1 072.7 1 866.3	764 255 1 185 595
32212132	Other writing paper, including body stock for communication papers, technical and reproduction, tablet, ledger, onion skin, papeterie and wedding, etc., uncoated freesheet .....	2002.. N 1997.. N	X X	X X	2 771 911 2 095 580
3221213221	Body stock for communication, copying, and related papers, uncoated freesheet .....	1,000 s tons.. 2002.. 10 1997.. 9	X X	2 983.5 1 090.5	2 086 620 787 854
3221213225	Other uncoated freesheet technical and reproduction papers, including mimeograph and gelatin and spirit process duplicating .....	1,000 s tons.. 2002.. 8 1997.. 10	X X	358.9 1 134.3	479 926 848 845
3221213231	Writing tablet paper, uncoated freesheet .....	1,000 s tons.. 2002.. 13 1997.. 11	X X	225.2 P327.8	148 186 216 922
3221213235	Other writing paper, including ledger, onion skin, papeterie and wedding, etc., uncoated freesheet .....	1,000 s tons.. 2002.. 8 1997.. 10	X X	78.8 351.0	57 179 241 959
32212133	Publication and printing paper, uncoated freesheet, all types .....	2002.. N 1997.. N	X X	X X	2 501 350 2 776 755
3221213341	Plain publication and printing paper, uncoated freesheet, including machine finish, English finish, antique, bulking, eggshell, and supercalendered .....	1,000 s tons.. 2002.. 11 1997.. 7	X X	663.4 257.7	622 250 214 668
3221213345	Offset publication and printing paper, uncoated freesheet .....	1,000 s tons.. 2002.. 18 1997.. 23	X X	P1 597.8 2 231.6	1 123 985 1 730 654
3221213351	Other uncoated publication and printing freesheet paper .....	1,000 s tons.. 2002.. 23 1997.. 21	X X	965.3 P894.5	755 115 831 433
32212134	Cover and text papers, envelope, body stock for coating, and all other converting and miscellaneous uncoated freesheet paper .....	2002.. N 1997.. N	X X	X X	2 367 297 3 288 265
3221213461	Cover and text papers, uncoated freesheet .....	1,000 s tons.. 2002.. 19 1997.. 18	X X	S S	674 280 899 380
3221213471	Envelope (white wove) paper, uncoated freesheet .....	1,000 s tons.. 2002.. 11 1997.. 13	X X	1 312.1 1 043.4	831 133 673 392
3221213481	Kraft envelope (bleached kraft and brown kraft) paper, uncoated freesheet .....	1,000 s tons.. 2002.. 7 1997.. 10	X X	S 243.5	199 131 177 234
3221213491	Uncoated freesheet body stock paper for coating (base or raw stock for conversion of off-machine coating) and all other miscellaneous uncoated freesheet .....	1,000 s tons.. 2002.. 12 1997.. 12	X X	S P1 261.4	662 753 1 538 259
3221213Y	Uncoated freesheet (containing not more than 10 percent mechanical fiber), nsk .....	2002.. N 1997.. N	X X	X X	— —
3221213YVV	Uncoated freesheet (containing not more than 10 percent mechanical fiber), nsk .....	2002.. N 1997.. N	X X	X X	— —
3221215	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus .....	2002.. N 1997.. N	X X	X X	1 226 783 1 230 728
32212151	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus .....	2002.. N 1997.. N	X X	X X	1 226 783 1 230 728
3221215111	Uncoated bleached bristol tag stock (weight more than 150 g per sq meter) .....	1,000 s tons.. 2002.. 7 1997.. 10	X X	242.7 S	200 168 150 667
3221215121	Uncoated bleached bristol file folder stock (weight more than 150 g per sq meter) .....	1,000 s tons.. 2002.. 8 1997.. 10	X X	386.4 311.2	306 389 231 124

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
322121	Paper (except newsprint) mills—Con.				
3221215	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus—Con.				
32212151	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus—Con.				
3221215131	Other uncoated bleached bristols, including tabulating card, index, printing, and postcard stock (weight more than 150 g per sq meter), excluding cotton fiber index and bogus . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	13 14	X X	P355.6 301.9	300 840 269 369
3221215141	Coated bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	3 5	X X	S 720.0	419 386 579 568
3221215Y	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	— —
3221215YVV	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	— —
3221217	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) and thin paper . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	D 762 448
32212171	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) and thin paper . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	D 691 127
3221217111	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	8 11	X X	D 141.5	D 334 311
3221217121	Thin paper including carbonizing, Bible, mimeograph and duplicating stencil tissue, India, tipping, condenser, cigarette paper, etc. . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	4 6	X X	D 133.3	D 356 816
3221217Y	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) and thin paper, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	68 161 71 321
3221217YVV	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) and thin paper, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	68 161 71 321
3221219	Unbleached kraft (not less than 80 percent) packaging and industrial converting paper . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	955 475 1 292 969
32212191	Unbleached kraft (not less than 80 percent) packaging and industrial converting paper . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	955 475 1 280 676
3221219111	Unbleached kraft shipping sack paper (meets minimum Federal specifications UU-S-48) and other unbleached kraft shipping sack paper . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	8 4	X X	459.4 440.5	199 937 219 367
3221219121	Unbleached kraft bag and sack paper (except shipping), including grocers' and other unbleached kraft bag and sack for notion, millinery, etc. . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	12 16	X X	P526.8 1 252.9	225 575 625 092
3221219131	Unbleached kraft wrapping and specialty packaging paper (92 lb or less), including flour, sugar, dog food, fast foods, dairy products, etc. . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	13 10	X X	P201.9 156.6	165 219 97 575
3221219191	Other unbleached kraft converting paper, including creping (92 lb or less), asphaltting paper, coating and laminating, gumming, etc. . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	11 11	X X	9603.7 913.6	364 744 338 642
3221219Y	Unbleached kraft (not less than 80 percent) packaging and industrial converting paper, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	— 12 293
3221219YVV	Unbleached kraft (not less than 80 percent) packaging and industrial converting paper, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	— 12 293
322121A	Packaging and industrial converting paper, except unbleached kraft . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	876 649 1 098 365
322121A1	Packaging and industrial converting paper, except unbleached kraft . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	876 649 1 080 132
322121A111	Shipping sack paper (except unbleached kraft), including combination kraft and rope, bleached and semibleached . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	6 3	X X	54.1 32.7	50 500 26 655
322121A121	Other bag and sack paper, except unbleached kraft and shipping, including grocers', liquor, millinery, notion, variety, etc. . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	8 8	X X	155.9 178.1	121 162 118 656
322121A131	Specialty packaging (92 lbs or less) and wrapping paper, except unbleached kraft (butcher, flour, sugar, fast foods, confectionery, etc.) . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	21 16	X X	9457.6 9626.6	455 065 687 977
322121A141	Other converting stock, including asphaltting and creping stocks (not more than 92 lbs), coating and laminating, gummed, twisting and spinning stock (19 lbs or more), and waxing stock (18 lbs or more) . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	12 11	X X	159.0 9165.3	138 706 189 982
322121A151	Glassine, greaseproof, and vegetable parchment, all grades regardless of end use (92 lb or less) . . . . . 1,000 s tons . . . . . 2002 . . . . . 1997 . . . . .	10 6	X X	996.0 45.1	111 216 56 862
322121AY	Packaging and industrial converting paper, except unbleached kraft, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	— 18 233
322121AYVV	Packaging and industrial converting paper, except unbleached kraft, nsk . . . . . 2002 . . . . . 1997 . . . . .	N N	X X	X X	— 18 233
322121C	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc. . . . . 2002 . . . . .	N	X	X	1 817 312

See footnotes at end of table.

**Table 6a. Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
322121	Paper (except newsprint) mills—Con.				
322121C	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc.—Con.				
	1997..	N	X	X	1 843 513
322121C1	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc.	2002..	N	X	1 817 312
	1997..	N	X	X	1 843 513
322121C100	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc.	1,000 s tons..2002..	34	X	S 1 817 312
		1997..	35	X	P987.9 1 843 513
322121E	Construction paper	2002..	N	X	X 216 117
		1997..	N	X	D
322121E1	Construction paper	2002..	N	X	X 216 117
		1997..	N	X	D
322121E111	Roofing felts, saturating and dry	1,000 s tons..2002..	9	X	S 138 515
		1997..	12	X	93 423
322121E121	Other construction paper, including sheathing paper, floor covering felts, automotive, insulating paper blankets, etc.	1,000 s tons..2002..	11	X	S 77 602
		1997..	9	X	D
322121EY	Construction paper, nsk	2002..	N	X	X —
		1997..	N	X	X —
322121EYVW	Construction paper, nsk	2002..	N	X	X —
		1997..	N	X	X —
322121G	Tissue paper and other machine-creped paper	2002..	N	X	X 2 022 039
		1997..	N	X	X 2 364 687
322121G1	Toilet tissue stock	2002..	N	X	X 704 037
		1997..	N	X	X 753 376
322121G111	Toilet tissue stock	1,000 s tons..2002..	14	X	P719.2 704 037
		1997..	20	X	P841.5 753 376
322121G2	Toweling paper stock, except wiper stock	2002..	N	X	X 565 881
		1997..	N	X	X 786 040
322121G221	Toweling paper stock, except wiper stock	1,000 s tons..2002..	12	X	P726.0 565 881
		1997..	19	X	P914.8 786 040
322121G3	Tissue paper and other machine-creped paper, excluding toilet tissue stock and toweling paper stock	2002..	N	X	X 752 121
		1997..	N	X	X 825 271
322121G331	Facial tissue stock, except toweling, napkin, and toilet	1,000 s tons..2002..	5	X	P14.6 14 080
		1997..	7	X	20.5 21 440
322121G341	Napkin paper stock, except sanitary napkin stock wadding	1,000 s tons..2002..	11	X	S 286 276
		1997..	18	X	293.6 281 974
322121G351	Wiper tissue stock, regular, facial, and wadding stock	1,000 s tons..2002..	4	X	P35.7 43 273
		1997..	3	X	6.4 10 361
322121G361	Other sanitary paper stock, including sanitary napkin stock wadding, aseptic paper stock, reinforced paper stock, etc.	1,000 s tons..2002..	13	X	S 202 975
		1997..	13	X	273.9 264 603
322121G371	Wrapping tissue, including florist tissue stock, hosiery paper, interleaving, antitarnish, etc.	1,000 s tons..2002..	7	X	P63.4 109 680
		1997..	8	X	S 116 987
322121G391	Other tissue paper stock, including waxing tissue stock, creped wadding for interior packaging (excluding sanitary and thin)	1,000 s tons..2002..	6	X	S 95 837
		1997..	9	X	120.1 129 906
322121GY	Tissue paper and other machine-creped paper, nsk	2002..	N	X	X —
		1997..	N	X	X —
322121GYVW	Tissue paper and other machine-creped paper, nsk	2002..	N	X	X —
		1997..	N	X	X —
322121K	Disposable diapers and similar disposable products, made in paper mills	2002..	N	X	X D
		1997..	N	X	X N
322121K1	Disposable diapers and similar disposable products (including sanitary napkins, tampons, training pants, and incontinent pads), made in paper mills	2002..	N	X	X D
		1997..	N	X	X N
322121K100	Disposable diapers and similar disposable products (including sanitary napkins, tampons, training pants, and incontinent pads), made in paper mills <sup>1</sup>	millions..2002..	5	X	D D
		1997..	N	X	N N
322121N	Sanitary tissue paper products, made in paper mills	2002..	N	X	X 12 582 900
		1997..	N	X	X 9 293 076
322121N1	Facial tissues and handkerchiefs, including sputum wipes, made in paper mills	2002..	N	X	X 2 096 130
		1997..	N	X	X 795 176
322121N111	Facial tissues and handkerchiefs, including sputum wipes, made in paper mills <sup>2</sup>	1,000 s tons..2002..	10	X	S 2 096 130
		1997..	9	X	258.0 795 176
322121N2	Paper table napkins, industrial and retail packages, bulk and dispenser types, made in paper mills	2002..	N	X	X 908 082
		1997..	N	X	X D
322121N201	Paper table napkins, industrial and retail packages, bulk and dispenser types, made in paper mills <sup>3</sup>	1,000 s tons..2002..	10	X	P522.3 908 082
		1997..	N	X	N
322121N3	Toilet tissue, retail packages, rolls and ovals, facial tissue type, two-ply or more, made in paper mills	2002..	N	X	X 3 556 136
		1997..	N	X	X 1 282 722
322121N331	Toilet tissue, retail packages, rolls and ovals, facial tissue type, two-ply or more, made in paper mills <sup>4</sup>	1,000 s tons..2002..	8	X	S 3 556 136
		1997..	9	X	P644.7 1 282 722
322121N4	Toilet tissue, retail packages, rolls and ovals, regular type, single-ply, made in paper mills	2002..	N	X	X 803 473
		1997..	N	X	X D
322121N433	Toilet tissue, retail packages, rolls and ovals, regular type, single-ply, made in paper mills <sup>5</sup>	1,000 s tons..2002..	6	X	S 803 473
		1997..	9	X	D D
322121N6	Paper towels, industrial packages (rolled, folded, and interfolded), made in paper mills	2002..	N	X	X 2 223 767
		1997..	N	X	X 791 194

See footnotes at end of table.

**Table 6a. Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
322121	Paper (except newsprint) mills—Con.				
322121N	Sanitary tissue paper products, made in paper mills—Con.				
322121N6	Paper towels, industrial packages (rolled, folded, and interfolded), made in paper mills—Con.				
322121N661	Paper towels, industrial packages (rolled, folded, and interfolded), made in paper mills <sup>5</sup> ..... 1,000 s tons..	2002.. 7	X	S	2 223 767
		1997.. 6	X	P579.5	791 194
322121N7	Paper towels, retail packages (rolled, folded, and interfolded), made in paper mills .....	2002.. N	X	X	2 106 632
		1997.. N	X	X	D
322121N701	Paper towels, retail packages (rolled, folded, and interfolded), made in paper mills <sup>7</sup> ..... 1,000 s tons..	2002.. 8	X	S	2 106 632
		1997.. N	X	N	N
322121N9	Other sanitary paper products (including industrial packaged toilet tissue (all types), paper wipers (except nonwoven), absorbent pads, etc.), made in paper mills .....	2002.. N	X	X	826 905
		1997.. N	X	X	N
322121N901	Other sanitary paper products (including industrial packaged toilet tissue (all types), paper wipers (except nonwoven), absorbent pads, etc.), made in paper mills <sup>8</sup> ..... 1,000 s tons..	2002.. 8	X	S	826 905
		1997.. N	X	N	N
322121NY	Sanitary tissue paper products, made in paper mills, nsk .....	2002.. N	X	X	61 775
		1997.. N	X	X	70 255
322121NYWV	Sanitary tissue paper products, made in paper mills, nsk .....	2002.. N	X	X	61 775
		1997.. N	X	X	70 255
322121W	Paper (except newsprint) mills, nsk, total .....	2002.. N	X	X	19 928
		1997.. N	X	X	47 078
322121WY	Paper (except newsprint) mills, nsk, total .....	2002.. N	X	X	19 928
		1997.. N	X	X	47 078
322121WYWW	Paper (except newsprint) mills, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	19 928
		1997.. N	X	X	47 078
322121WYWY	Paper (except newsprint) mills, nsk, for administrative-record establishments .....	2002.. N	X	X	—
		1997.. N	X	X	—

<sup>1</sup>This product code is primary to more than one industry. See industry 322291, product code 3222912100.

<sup>2</sup>This product code is primary to more than one industry. See industry 322291, product code 3222915111.

<sup>3</sup>This product code is primary to more than one industry. See industry 322291, product code 3222915215.

<sup>4</sup>This product code is primary to more than one industry. See industry 322291, product code 3222915331.

<sup>5</sup>This product code is primary to more than one industry. See industry 322121, product code 322121N701.

<sup>6</sup>This product code is primary to more than one industry. See industry 322291, product code 3222915661.

<sup>7</sup>This product code is primary to more than one industry. See industry 322291, product code 3222915701.

<sup>8</sup>This product code is primary to more than one industry. See industry 322291, product code 3222915901.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3221211	Clay-coated printing and converting paper	
	United States ..... 2002 ..	7 693 273
	..... 1997 ..	8 452 880
3221213	Uncoated freesheet paper (containing not more than 10 percent mechanical fiber)	
	United States ..... 2002 ..	10 564 938
	..... 1997 ..	11 633 314
	Louisiana ..... 2002 ..	697 078
	..... 1997 ..	N
	Massachusetts ..... 2002 ..	45 980
	..... 1997 ..	138 033
	New Jersey ..... 2002 ..	120 478
	..... 1997 ..	N
	New York ..... 2002 ..	623 481
	..... 1997 ..	626 195
	Pennsylvania ..... 2002 ..	625 518
	..... 1997 ..	1 046 439
	Washington ..... 2002 ..	530 466
	..... 1997 ..	565 790
	Wisconsin ..... 2002 ..	1 331 348
	..... 1997 ..	1 809 000
3221215	Bleached bristols (weight more than 150 g per sq meter), excluding cotton fiber index and bogus	
	United States ..... 2002 ..	1 226 783
	..... 1997 ..	1 230 728
	Wisconsin ..... 2002 ..	106 694
	..... 1997 ..	91 316
3221217	Cotton fiber paper (containing 25 percent or more cotton or similar fibers) and thin paper	
	United States ..... 2002 ..	D
	..... 1997 ..	762 448
	Massachusetts ..... 2002 ..	206 587
	..... 1997 ..	295 876
	Wisconsin ..... 2002 ..	11 946
	..... 1997 ..	77 860
3221219	Unbleached kraft (not less than 80 percent) packaging and industrial converting paper	
	United States ..... 2002 ..	955 475
	..... 1997 ..	1 292 969
	New York ..... 2002 ..	43 175
	..... 1997 ..	N
322121A	Packaging and industrial converting paper, except unbleached kraft	
	United States ..... 2002 ..	876 649
	..... 1997 ..	1 098 365
	Washington ..... 2002 ..	61 941
	..... 1997 ..	104 872
	Wisconsin ..... 2002 ..	207 578
	..... 1997 ..	228 147
322121C	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc.	
	United States ..... 2002 ..	1 817 312
	..... 1997 ..	1 843 513
	Massachusetts ..... 2002 ..	325 184
	..... 1997 ..	308 913
	New York ..... 2002 ..	232 404
	..... 1997 ..	251 876
	Pennsylvania ..... 2002 ..	101 250
	..... 1997 ..	N
	Wisconsin ..... 2002 ..	407 097
	..... 1997 ..	366 591
322121E	Construction paper	
	United States ..... 2002 ..	216 117
	..... 1997 ..	D
	Wisconsin ..... 2002 ..	20 091
	..... 1997 ..	N
322121G	Tissue paper and other machine-creped paper	
	United States ..... 2002 ..	2 022 039
	..... 1997 ..	2 364 687
	New York ..... 2002 ..	240 426
	..... 1997 ..	157 566
	Wisconsin ..... 2002 ..	560 174
	..... 1997 ..	512 520
322121K	Disposable diapers and similar disposable products, made in paper mills	
	United States ..... 2002 ..	D
	..... 1997 ..	N
322121N	Sanitary tissue paper products, made in paper mills	
	United States ..... 2002 ..	12 582 900
	..... 1997 ..	9 293 076
	New York ..... 2002 ..	255 405
	..... 1997 ..	396 972
	Wisconsin ..... 2002 ..	2 356 183
	..... 1997 ..	1 668 507

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
322121	Paper (except newsprint) mills		
00900001	Total materials .....	X	15 138 445
11331005	Spruce and true fir pulpwood bolts and logs .....	X	17 623 400
11331007	Hemlock pulpwood bolts and logs .....	1 051.8	86 850
	1,000 standard cords .....	1 203.9	130 244
	1,000 standard cords .....	S	42 695
	1997 .....	683.1	54 854
11331009	Southern pine pulpwood bolts and logs .....	S	575 839
11331023	Other softwood pulpwood bolts and logs, including Douglas fir and Jack pine .....	10 905.4	572 060
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues .....	S	259 198
	1,000 standard cords .....	2 368.6	122 711
	1,000 standard cords .....	P6 751.1	504 022
	1997 .....	10 211.5	681 989
11331011	Southern mixed hardwood pulpwood bolts and logs .....	5 037.1	327 533
11331025	Other hardwood pulpwood bolts and logs .....	P7 743.4	431 852
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues .....	S	448 094
	1,000 standard cords .....	8 933.0	489 739
	1,000 standard cords .....	P5 807.8	397 248
	1997 .....	8 416.1	562 000
32518103	Chlorine (100 percent Cl basis) .....	82.9	22 530
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH) .....	365.0	82 021
32518823	Sodium chlorate (100 percent NaClO <sub>3</sub> ) .....	P703.0	113 488
	1,000 s tons .....	1 257.8	247 702
	1,000 s tons .....	P674.7	221 753
	1997 .....	682.9	241 576
32510007	Other sodium compounds .....	X	33 516
32518813	Aluminum sulfate (17 percent Al <sub>2</sub> O <sub>3</sub> ) .....	X	45 345
32599811	Rosin sizing .....	116.8	14 932
	1,000 s tons .....	149.6	19 616
	mil lb (dry basis) .....	P60.7	39 411
	1997 .....	188.5	93 225
32741003	Lime .....	P523.5	31 776
21232400	Kaolin and ball clay .....	734.3	40 967
31122113	Starch .....	q1 646.4	284 069
	1,000 s tons .....	2 036.2	322 274
	1,000 s tons .....	P1 884.1	316 933
	mil lb .....	2 192.1	419 869
32521131	Synthetic resins .....	P315.2	173 664
32513103	Titanium dioxide, composite and pure (100 percent TiO <sub>2</sub> ) .....	425.1	279 707
32518829	Calcium carbonate, precipitated (100 percent CaCO <sub>2</sub> ) .....	q239.0	199 840
	1,000 s tons .....	382.7	326 403
	1,000 s tons .....	P2 309.9	278 329
	1997 .....	1 832.8	261 717
32500009	All other chemicals (including organic) .....	X	1 348 952
32210029	Woodpulp produced at affiliated or associated mills at other locations .....	X	1 473 728
32210031	Woodpulp, purchased (market) .....	3 410.2	1 147 303
	1,000 s tons (dry basis) .....	1 980.7	889 868
	1,000 s tons (dry basis) .....	q4 228.7	1 688 594
	1997 .....	7 825.0	3 259 888
00190006	Mixed wastepaper, excluding plant's own broke paper .....	S	215 841
00190007	Mechanical news wastepaper, excluding plant's own broke paper .....	1 819.1	367 079
00190072	Other mechanical wastepaper, excluding plant's own broke paper .....	D	D
	1,000 s tons .....	446.6	22 997
	1,000 s tons .....	568.5	76 536
	1997 .....	313.3	38 654
00190073	Corrugated wastepaper (including kraft), excluding plant's own broke paper .....	1 217.4	115 697
00190009	High grade pulp substitutes wastepaper, excluding plant's own broke paper .....	1 597.1	235 975
00190010	High grade deinking wastepaper, excluding plant's own broke paper .....	524.1	108 264
	1,000 s tons .....	439.7	133 513
	1,000 s tons .....	1 296.1	220 908
	1997 .....	P1 448.3	282 329
31122305	Cotton linters .....	q32.6	26 154
32210033	Linters pulp .....	q70.0	38 509
00190015	Other fibrous materials, including rags, straw, and bagasse .....	9.1	12 563
	1,000 s tons .....	S	27 455
	1,000 s tons .....	D	D
	1997 .....	284.2	106 516
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....	X	D
31323001	Nonwoven fabrics .....	X	52 209
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.) .....	D	D
	mil sq yd .....	S	172 684
	1,000 s tons .....	X	550 537
	1,000 s tons .....	X	413 098
	1997 .....	X	
32552003	Glues and adhesives .....	S	108 376
32221001	Paperboard containers, boxes, and corrugated paperboard .....	100.9	76 275
00970099	All other materials and components, parts, containers, and supplies .....	X	581 229
00971000	Materials, ingredients, containers, and supplies, nsk .....	X	481 771
	1,000 s tons .....	X	2 598 446
	1,000 s tons .....	X	3 332 075
	1997 .....	X	775 571
	1997 .....	X	792 906

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.